Title (en)

Apparatus and method for decoding a coded digital signal

Title (de)

Vorrichtung und Verfahren zur Dekodierung eines kodierten digitalen Signals

Title (fr)

Appareil et méthode pour décoder un signal digital codé

Publication

EP 0782138 A3 19990630 (EN)

Application

EP 96309545 A 19961224

Priority

JP 35163095 A 19951225

Abstract (en)

[origin: EP0782138A2] Digital signal decoder which decodes coded data, for example, a coded digital video signal, that has error-correcting data such as C1/C2 convolutional Reed-Solomon type data added thereto. The decoder stores in a memory the coded data, detects correctable errors in the stored coded data, ascertains positions of the detected errors in the coded data, and supplies error correction patterns that correspond to those errors. A second memory stores the ascertained positions of the errors as well as the error correction patterns, and coded data that correspond to the positions of the errors are read from the first memory and decoded by using the error correction patterns stored in the second memory so as to produce corrected decoded data. A digital signal reproducing apparatus embodying the above decoder also is disclosed. <IMAGE>

IPC 1-7

G11B 20/18

IPC 8 full level

G11B 20/18 (2006.01); H03M 13/00 (2006.01); H03M 13/29 (2006.01); H04N 5/92 (2006.01); H04N 7/24 (2006.01); H04N 7/26 (2006.01); H04N 9/877 (2006.01); H04N 19/00 (2014.01); H04N 19/102 (2014.01); H04N 19/152 (2014.01); H04N 19/166 (2014.01); H04N 19/196 (2014.01); H04N 19/42 (2014.01); H04N 19/423 (2014.01); H04N 19/426 (2014.01); H04N 19/44 (2014.01); H04N 19/46 (2014.01); H04N 19/503 (2014.01); H04N 19/65 (2014.01); H04N 19/67 (2014.01); H04N 19/70 (2014.01); H04N 19/89 (2014.01); H04N 5/783 (2006.01); H04N 5/85 (2006.01); H04N 9/804 (2006.01)

CPC (source: EP KR US)

G11B 20/1806 (2013.01 - EP US); H03M 7/30 (2013.01 - KR); H04N 9/877 (2013.01 - EP US); H04N 5/783 (2013.01 - EP US); H04N 5/85 (2013.01 - EP US); H04N 9/8042 (2013.01 - EP US)

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Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0782138 A2 19970702; EP 0782138 A3 19990630; EP 0782138 B1 20020717; CN 1127085 C 20031105; CN 1167981 A 19971217; DE 69622360 D1 20020822; DE 69622360 T2 20030327; JP 3305966 B2 20020724; JP H09238085 A 19970909; KR 100449931 B1 20041204; KR 970055617 A 19970731; MY 115663 A 20030830; US 5901159 A 19990504

DOCDB simple family (application)

EP 96309545 A 19961224; CN 96123854 A 19961225; DE 69622360 T 19961224; JP 30697196 A 19961031; KR 19960081375 A 19961226; MY PI9605436 A 19961223; US 76987896 A 19961219